

What is claimed is:

1. A motorized rotary valve assembly comprising:
 - (a) a housing including a mounting surface thereon and having a motor drive therein, said housing configured for insertion into an aperture formed in a flow passage to be valved, said housing having an opening therein for accessing said motor drive;
 - (b) a vane valve member associated exteriorly with said housing and operatively connected through said opening with said motor drive for rotation thereby relative to said housing, said valve member having a flow baffling surface along an edge thereof wherein said housing and valve member are adapted for insertion as a unit through said aperture and located therein by said mounting surface.
2. The assembly defined in claim 1, wherein said baffling surface includes an offset edge of said vane valve member.

3. In combination a motorized valve and engine air inlet manifold passage comprising:
 - (a) a manifold with an inlet passage having an access opening and a rib-formed in the wall of the passage and extending thereacross in a direction transverse to the pressure pulse communication and located opposite said access opening;
 - (b) a valve housing with a motor drive therein with a flange extending outwardly therefrom;
 - (c) a valve vane operatively connected to said motor drive for rotation with respect to said housing upon energization of said motor drive, said vane disposed through said access opening and having portions thereof configured for providing baffling of pressure pulse communication over said rib upon movement of the vane to a closed position with respect to the inlet passage;
 - (d) means operable for retaining said flange on said manifold.
4. The combination defined in claim 3, wherein said valve housing has portions thereof configured for being received in said access opening.
5. The combination defined in claim 3, wherein said means for retaining said flange includes threaded fasteners.
6. The combination defined in claim 3, wherein said valve vane is connected to said motor drive by a centrally disposed shaft.
7. The combination defined in claim 3, wherein said valve vane and said inlet passage have a rectangular cross section.
8. The combination defined in claim 3, wherein said valve vane includes a plurality of stiffening ribs formed integrally therewith.

9. The combination defined in claim 3, wherein said motor drive includes a rotatable shaft extending externally of the housing with said vane mounted thereon.

10. A method of controlling communication in an engine inlet manifold passage comprising:
 - (a) disposing a rib across one side of the passage in a direction transverse to the pressure pulse communication and forming an access opening in the passage at a location opposite said rib;
 - (b) disposing a motorized rotary drive in the housing and connecting a vane to said drive through an aperture in the housing;
 - (c) forming a baffling surface on an edge of said vane;
 - (d) inserting said vane through said access opening and positioning the vane for rotation with respect to said rib;
 - (e) energizing said motor drive and rotating said vane and baffling communication over said rib with said baffling surface when said vane is in a closed position with respect to said passage.
11. The method defined in claim 10, wherein said step of forming a baffling surface includes molding said surface on a one-piece member;
12. The method defined in claim 10, wherein said step of disposing a rib includes forming a pocket in said rib and piloting the vane in the pocket.
13. The method defined in claim 10, wherein said step of disposing a vane includes molding a one-piece member of resinous material.
14. The method defined in claim 13, wherein said step of molding includes integrally forming a hub with a plurality of outwardly extending stiffening ribs.
15. The method defined in claim 10, wherein said step of providing a housing includes forming an outwardly extending flange and mounting the housing to the manifold with said flange.

16. The method defined in claim 10, wherein said step of forming an offset surface includes forming a flap along one edge of the vane.